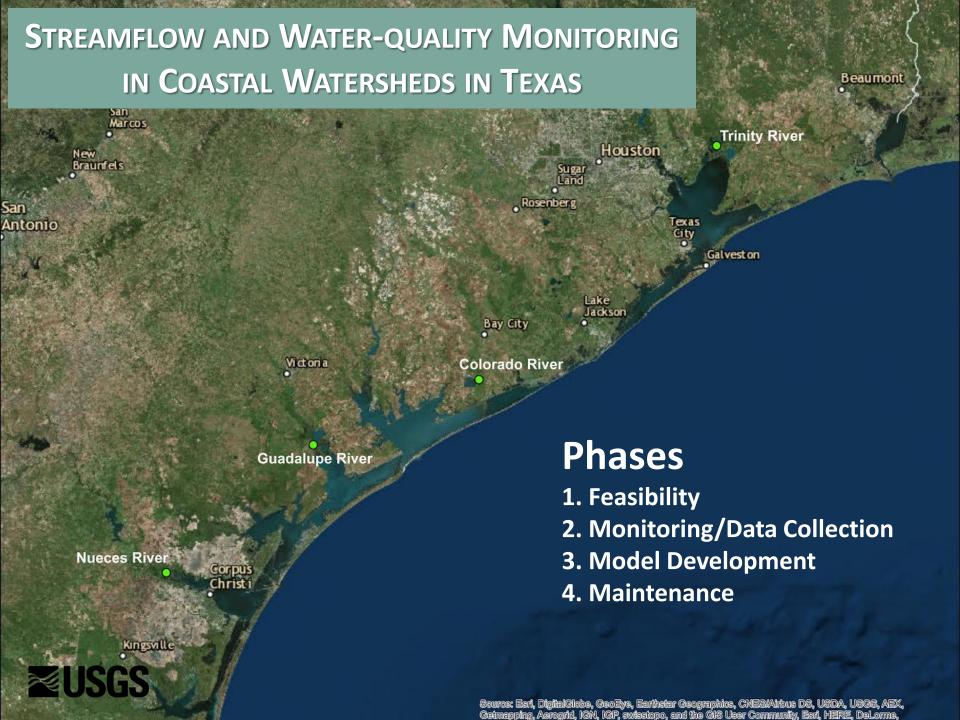


May 1, 2017
U.S. Geological Survey
Texas Water Science Center
South Texas Program Office

Texas Water Development Board





PROJECT TASKS

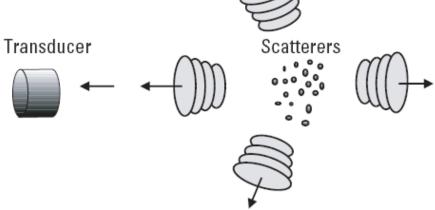
- Collection of streamflow and water-quality data in the Nueces River
 - Various Conditions
 - Emphasis on High Flow
 - Nutrient and Suspended-Sediment Concentrations
 - Periodic Sampling
 - Physical Properties
 - Water-quality monitor
 - Streamflow Measured during Sampling
 - Attenuation/Backscatter from ADVM



ACOUSTIC BACKSCATTER



water-sediment mixture will scatter and attenuate as a function of fluid, sediment, and acoustic instrument characteristics.

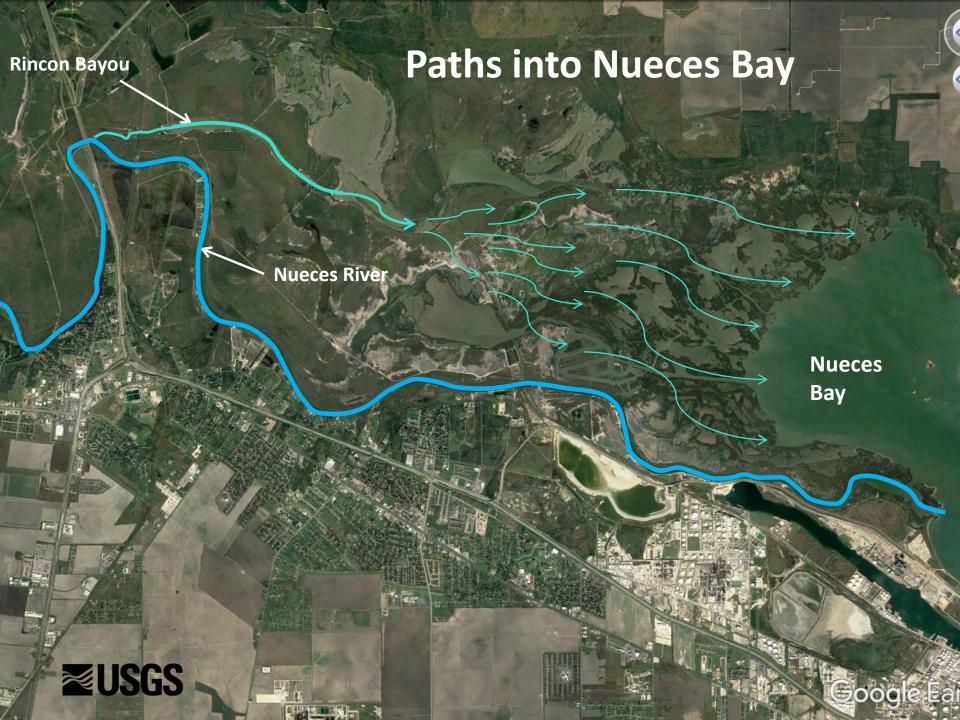


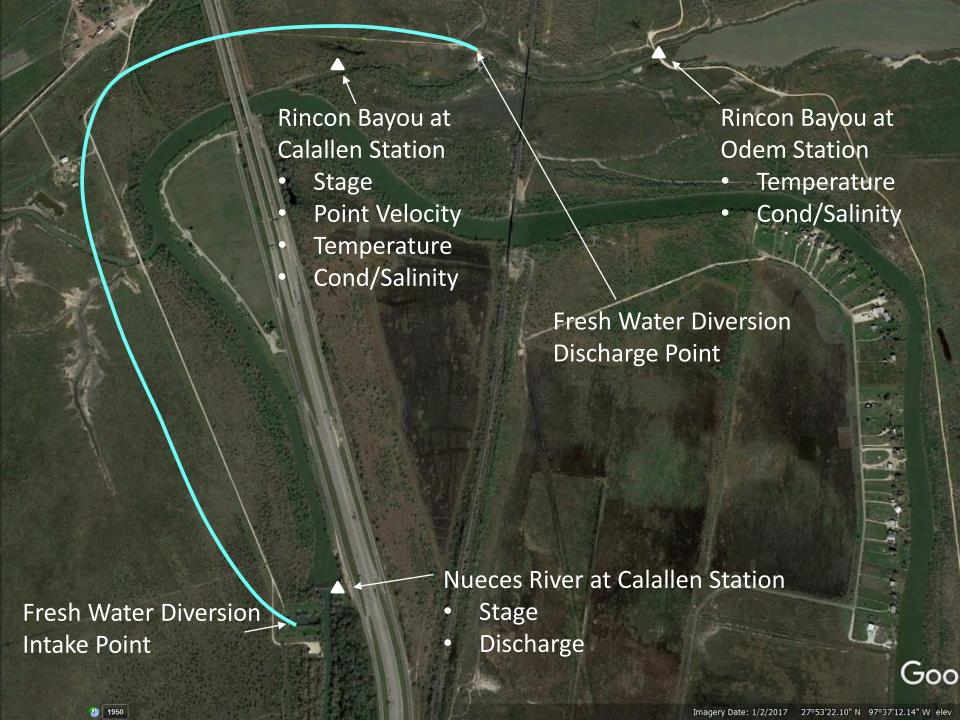


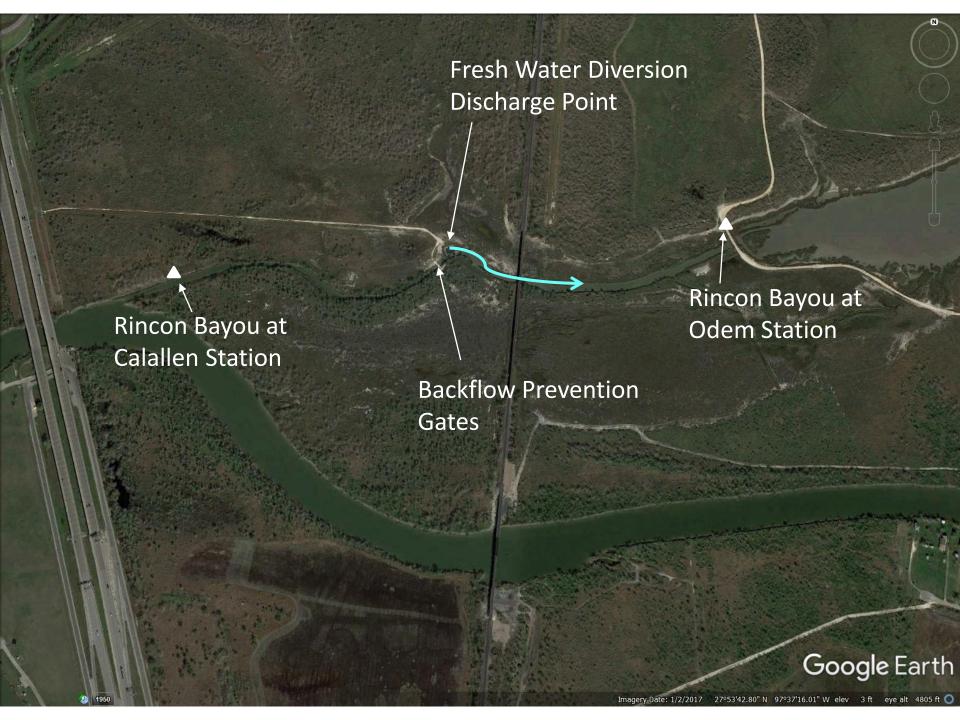
PROJECT TASKS

 Recommend location(s) for establishing permanent monitoring station to continuously measure sediment and nutrient concentrations entering Nueces Bay.









PROJECT TASKS

Progress to date

- Reconnaissance completed
 - 2 Sampling Locations Selected
 - Nueces River at Hwy 37 (high-flows)
 - Rincon Bayou below Diversion Discharge (low- to mid-range flows/diversions)
- Recommendations for gage relocations completed
- 3 low-flow samples collected at the 2 sites in September 2016
- 3 discharge measurement made
- Conditions have not been favorable for high-flow samples





WHAT'S NEXT?

- Collection of more samples especially during high-flow events
- Look for correlations between backscatter data and sediment
- Move current gages to proposed sampling locations



